

WHAT IS CLAIMED IS:

[0027] 1. A gear shift mechanism for electromotive toy car, provided in a space defined by a left cover and a right cover, including a gearshift lever, a slide plate, an opening shield plate, an opening shield securing plate, a switch plate, pushbuttons, a switch plate affixing shaft, and a gearshift lever pivotal pin, wherein:

[0028] the T-shaped gearshift lever is constructed of a lateral grip and a vertical shaft, the gearshift lever pivotal pin transversely passes through a bottom through-hole of the gearshift lever to join to pin openings of the left cover and right cover, such that the gearshift lever is able to move forwards and backwards about the gearshift lever pivotal pin in an S-shaped gear channel jointly defined by the left cover and right cover;

[0029] the slide plate includes a curved rectangular plate, the gearshift lever passes through a lateral slot formed on the slide plate, the slide plate is formed with four posts extending downwards from a bottom thereof, the posts are formed with inner threads;

[0030] the opening shield plate includes an aperture matched to a diameter of the gearshift lever vertical shaft and is placed beneath the slide plate slot, the opening shield plate is formed with three pegs extending downwards from a bottom thereof to urge against the opening shield securing plate;

[0031] the opening shield securing plate includes a substantially square plate formed with four corner openings to be secured into the slide plate by passing screws upwards into the corner openings and the inner threads within the four posts at the bottom of the slide plate, the opening shield securing plate is formed with a lateral slot through which the gearshift lever passes, beneath a center of the opening shield securing plate is affixed with a U-shaped torsion spring, two ends the torsion spring being spaced apart by a fixed button provided at a front end thereof to cause the ends tightly clamp to the gearshift lever, such that the gearshift lever is maintained at the center of the opening

shield securing plate slot by means of the torsion spring;

[0032] the switch plate includes a substantially square plate formed with a lateral slot at a center thereof through which the gearshift lever passes, on opposing sides of the slot are provided with pivotal holes through which flattened switch plate affixing shafts pass to join to apertures formed on the gearshift lever through the pivotal holes, such that the switch plate is able to move forwards and backwards along with the gearshift lever, the switch plate is provided with a plurality of claws extending downwards from a bottom thereof, for pushing the pushbutton; and

[0033] the pushbuttons are embedded in recesses of the left cover, where the switch plate moves forwards and backwards along with the gearshift lever subjecting the claws located at the bottom thereof to push one of the pushbuttons, the power switch may be activated by a pedal throttle for halting, driving slow advancement, fast advancement or slow reversing of the electromotive toy car.